# PATENT COOPERATION TREATY

# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5060-129/POA	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
PCT/US 03/01227	15/01/2003	24/01/2002						
Applicant  EMERSON ELECTRIC CO.								
according to Article 18. A copy is being tr		hority and is transmitted to the applicant						
This International Search Report consists  It is also accompanied by	of a total of <u>Z</u> sheets.  To a copy of each prior art document cited in this	s report.						
	international search was carried out on the balless otherwise indicated under this item.	sis of the international application in the						
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this						
b. With regard to any nucleotide at was carried out on the basis of the		nternational application, the international search						
l —	onal application in written form.							
filed together with the int	ernational application in computer readable for	m.						
furnished subsequently t	o this Authority in written form.							
furnished subsequently t	o this Authority in computer readble form.							
	bsequently fumished written sequence listing of as filed has been fumished.	does not go beyond the disclosure in the						
the statement that the inf furnished	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished							
2. Certain claims were for	und unsearchable (See Box I).							
3. Unity of invention is la	cking (see Box II).							
4. With regard to the title,								
X the text is approved as s	ubmitted by the applicant.							
the text has been establi	shed by this Authority to read as follows:							
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Author se date of mailing of this International search re							
6. The figure of the drawings to be pul	olished with the abstract is Figure No.	2						
as suggested by the app	ilcant.	None of the figures.						
X because the applicant fa	iled to suggest a figure.							
because this figure bette	er characterizes the Invention.							

Form PCT/ISA/210 (first sheet) (July 1998)

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

# **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the International phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]:
   Claims 1 to 15 replaced by amended claims 1 to 11.
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/US 03/01227

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02P1/42 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H02P IPC 7 H05K D06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y US 5 359 273 A (FLUECKIGER DANIEL) 1 - 1725 October 1994 (1994-10-25) column 2, line 60 -column 3, line 6; figure 2 Υ GB 2 343 996 A (NEC TECHNOLOGIES) 1 - 1724 May 2000 (2000-05-24) abstract; figure 1 Α US 5 689 168 A (BOGWICZ ROBERT R ET AL) 1,9,17 18 November 1997 (1997-11-18) column 4, line 40 - line 56 Α EP 0 394 177 A (EMERSON ELECTRIC CO) 9 - 1624 October 1990 (1990-10-24) abstract; figures 1,1A Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 7 May 2003 14/05/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax. (+31-70) 340-3016 Beyer, F

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 03/01227

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5359273	А	25-10-1994	AT CA WO DE EP	130980 7 2088626 7 9222126 7 59204500 [ 0542955 7	A1 08-12-199 A1 10-12-199 D1 11-01-199
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US 5689168	Α	18-11-1997	CA EP JP	2212972 / 0840436 / 10136673 /	1 06-05-199
EP 0394177	А	24-10-1990	US CA CN EP FI IE IL JP	5070565 / 2006005 / 1046571 / 0394177 / 91781 E 901267 / 93971 / 3136694 / 166533 E	A1 17-10-199 A2 31-10-199 A2 24-10-199 B3 29-04-199 A1 13-03-199 A 28-11-199 A 11-06-199

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